INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/41600

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7)	: C12N 15/00; A61K 39/395; C07K 16/00				
US CL	: 530/387.3, 388.85, 391.3; 424/130.1·536/23	4. 435/320 1 60 6			
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIE	LDS SEARCHED	The state of the s			
Minimum d	Ocumentation and I ()				
Minimum	ocumentation searched (classification system followed	by classification symbols)			
0.3	530/387.3, 388.85, 391.3; 424/130.1; 536/23.4; 435/	320.1, 69.6			
Documentat	ion searched other than minimum t				
	ion searched other than minimum documentation to the	ne extent that such documents are included in	in the fields searched		
Electronic d					
Plana On 6	ata base consulted during the international search (nar Continuation Sheet	me of data base and, where practicable, sea	rch terms used)		
Please See (Continuation Sheet		-on torms used)		
C. DOC	TIMENTS CONCIDEDED TO DE ST				
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.		
Y	I IIA I DEN Cl al. Single-chain mono- and hisnerific	antibody dominations with the			
	I bloogical properties and antitumor activity from C	OS cell transient expression	1-7, 20-28, 31-40, 53-		
	Therapeutic Immunology. 1994, Vol. 94, pages 3-	15. especially Figure 1 Methods	57, 59, 62-63, 65-75,		
		1 igaro 1, inculous.	116-119, 129-137, 140-		
			150, 161-169, 171-181,		
			238, 240-243, 251-259,		
			261-267, 282-285, 287-		
			295, 399-411		
Y	US 6 147 203 A (PASTANI et al.) 14 No.				
_	US 6,147,203 A (PASTAN et al.) 14 November 20 especially abstract, column5-6.	00 (14.11.2000), see entire document,	1-7, 20-28, 31-40, 53-		
	ospecially abstract, columns-6.		57, 59, 62-63, 65-75,		
			116-119, 129-137, 140-		
			150, 161-169, 171-181,		
			238, 240-243, 251-259,		
			261-267, 282-285, 287-		
		•	295, 399-411		
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Further	documents are listed in the continuation of Box C.		·		
		See patent family annex.			
	pecial categories of cited documents:	"T" later document published after the inte	mational filing date or priority		
"A" document	t defining the general state of the art which is not considered to be	water and not in commer with the applica	ation has also les aund		
of particu	tlar relevance	principle or theory underlying the inve	ntion .		
"E" earlier an	plication or patent published on or after the international filing date	"X" document of particular relevance; the	claimed invention cannot be		
		considered novel or cannot be consider	red to involve an inventive step		
"L" document	t which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone	•		
specified)	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	laimed invention cannot be		
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"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents such combined on		
	published prior to the international filing date but later than the				
priority d	ate claimed	"&" document member of the same patent i	amily		
Date of the a	ctual completion of the internal and				
Date of the actual completion of the international search Date of mailing of the international search report					
29 October 2	004 (29.10.2004)	09 NOV 2004	. /		
Name and mailing address of the ISA/US Authorized officer					
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orm PCT/ISA/210 (second sheet) (July 1998)					

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Y	Citation of document, with indication, where appropriate, of the relevant passages US 6,074,644 A (PASTAN et al.) 13 June 2000 (13.06.2000), see entire document,	Relevant to claim No.		
	especially column 20.	26, 28, 32, 135, 137, 142, 257, 259, 262		
Y	US 5,677,425 A (BODMER et al.) 14 October 1997 (14.10.1997), see entire document, especially abstract, column 3-4.	65-75, 116, 172-180, 288-295		
Y	US 6,482,919 B2 (LEDBETTER et al.) 19 November 2002 (19.11.2002), see entire document.	180		
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INTERNATIONAL SEARCH REPORT	PCT/US03/41600
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Continuation of B. FIELDS SEARCHED Item 3:	
CAPLUS, MEDLINE, WEST, BIOSIS Search terms: inventor name, scfv, hinge, cysteine, fusion protein, CD19, CD3, d stabilized, constnat region.	deleted hinge, altered hinge, IgG1, IgA, IgE, disulfide
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